



SPYWOLF

Security Audit Report



Completed on
March 22, 2023

@SPYWOLFNETWORK



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SPYWOLF.CO





OVERVIEW

This audit has been prepared for **SamuraiAI** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”





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Samurai



PROJECT DESCRIPTION

According to their website:

Based on your hourly buys you will compete with other buyers to win the SamurAi of the hour.

Samurai will earn a 2% commission on all sells made during the following hour until the next round commences.

Release Date: Launching in March, 2023

Category: AI



CONTRACT INFO

Token Name
Samurai

Symbol
Samurai

Contract Address

0xd3bCB78c39378EF649Cd30f5643c96918D650F33

Network

Arbitrum **TESTNET**

Language

Solidity

Deployment Date

March 21, 2023

Verified?

Yes

Total Supply

1,000,000,000

Status

Not launched

TAXES

Buy Tax
none

Sell Tax
3%

*Taxes cannot be changed



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

Transfer Count	TESTNET
Uniq Senders	TESTNET
Uniq Receivers	TESTNET
Total Amount	1,000,000,000 SamurAi
Median Transfer Amount	1,000,000,000 SamurAi
Average Transfer Amount	1,000,000,000 SamurAi
First transfer date	TESTNET
Last transfer date	TESTNET
Days token transferred	TESTNET

SMART CONTRACT STATS

Calls Count	TESTNET
External calls	TESTNET
Internal calls	TESTNET
Transactions count	TESTNET
Uniq Callers	TESTNET
Days contract called	TESTNET
Last transaction time	TESTNET
Created	TESTNET
Create TX	0xa39b4372fd24062c6f22af31c7c9dbd7e41a23b8bcfde4d3feb34a114bf9e7d0
Creator	0xc90fe02a715dde17c18ddaadd614e012a2175893



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

High Risk

No high risk-level threats found in this contract.

Medium Risk

No medium risk-level threats found in this contract.

Low Risk

No low risk-level threats found in this contract.



FOUND THREATS

Informational

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function excludeFromFees(address account, bool excluded)
    external
    onlyOwner
{
    _isExcludedFromFees[account] = excluded;
}
```

Owner can withdraw any tokens from the contract.

When this function is present, in cases tokens sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function emergencyETHWithdraw() external onlyOwner {
    uint256 balance = address(this).balance;
    payable(msg.sender).transfer(balance);
}

function emergencyERC20Withdraw(address token) external onlyOwner {
    uint256 tokenBalance = IERC20(token).balanceOf(address(this));
    IERC20(token).transfer(msg.sender, tokenBalance);
}
```



FOUND THREATS

Informational

Owner can change each samurai round duration without limits.
Current samurai round duration is 1 hour.

This is the time that address became samurai for and receive the samurai tax portion (2% swapped in eth) from each sell.

If the duration for current address set as samurai is over and there is no other address set as next samurai, the samurai become the protocol address (0xC90FE02a715dde17c18dDAadD614E012A2175893)

Samurai system explanation:

When users buy tokens, they compete to become the next Samurai. Users set as current Samurai will receive the samurai fees (2%) from each sell in ETH tokens.

User can become Samurai if he/she buy more tokens with one transaction than the amount that current next Samurai bought.

Once current round time elapses, the address set as next Samurai become the current samurai and will receive the samurai fees as ETH for the round duration time.

```
uint256 public constant SELL_SAMURAI_FEE = 2;  
function changeRoundDuration(uint256 newDuration) external onlyOwner {  
    _roundDuration = newDuration;  
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

SamuraiAI

GOOD PRACTICES FOUND

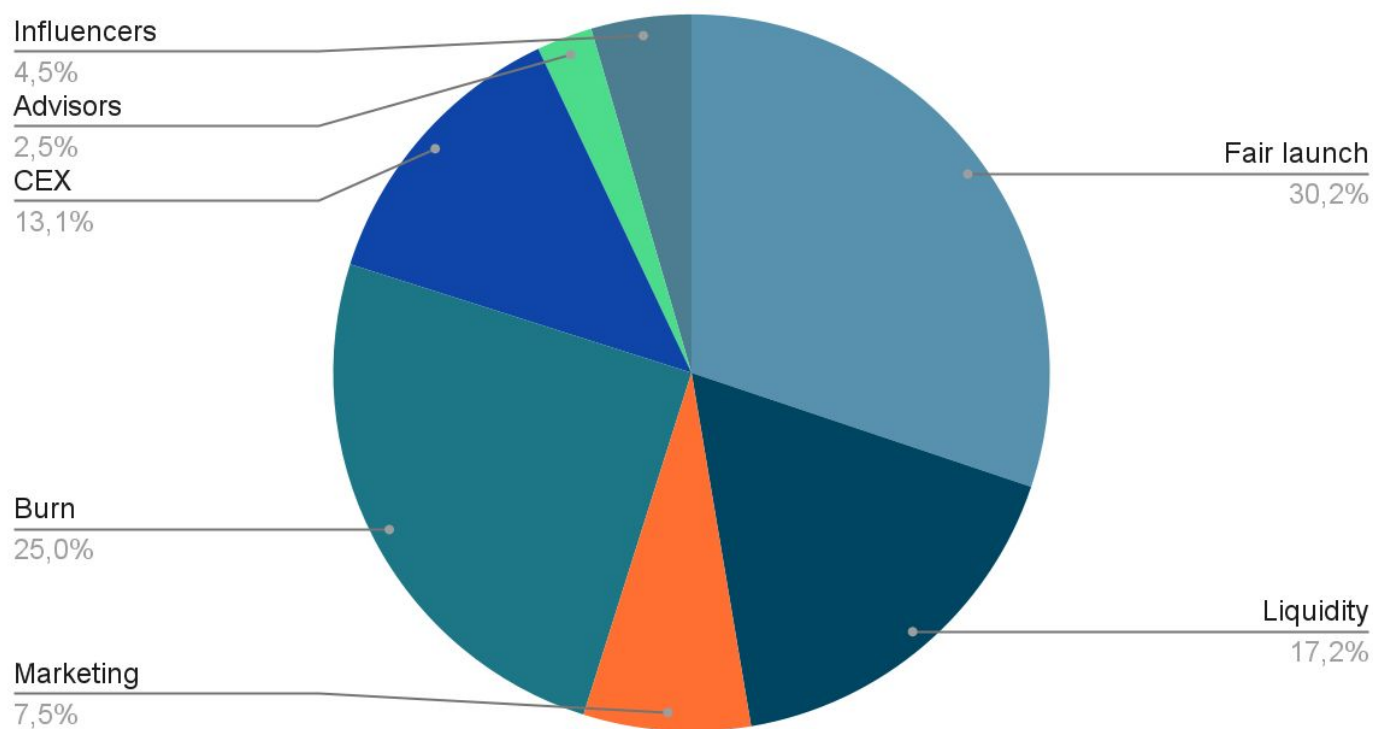
- ✓ The owner cannot stop or pause the contract
- ✓ The owner cannot set a transaction limit
- ✓ The smart contract utilizes "SafeMath" to prevent overflows



The following tokenomics are based on the project's website:

- 30% - Fair launch
- 17.1% - Liquidity
- 7.5% - Marketing
- 24.9% - Burn
- 13% - CEX
- 2.5% - Advisors
- 0.5% - Airdrop
- 4.5% - Influencers & Partnerships

Tokens distribution



TOKENOMICS



THE TEAM



The team has privately doxxed to PINKSALE

<https://pinksale.notion.site/Samurai-KYC-Verification-da57f0b84b35483095833e07035c5dde>

Samurai - KYC Verification

This KYC page verifies that **One Member** of the project has successfully completed the verification process at PinKSale. Project info:

- Project Name: Samurai
- Project Website: <http://samurai.tax/>
- KYC Issued: February 28, 2023



Disclaimer

A project receiving the KYC badge does not mean in any way that we approve or recommend that project, even if we host an AMA with them. Please always DYOR before investing, remembering



WEBSITE

Website URL

<https://samurai.tax/>

Domain Registry

<https://www.namecheap.com/>

Domain Expiration

Expires on 2024-02-24

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page design,
appropriate color scheme
and graphics.

Content

The information helps new
investors understand what
the product does right away.
No grammar mistakes
found.

Whitepaper

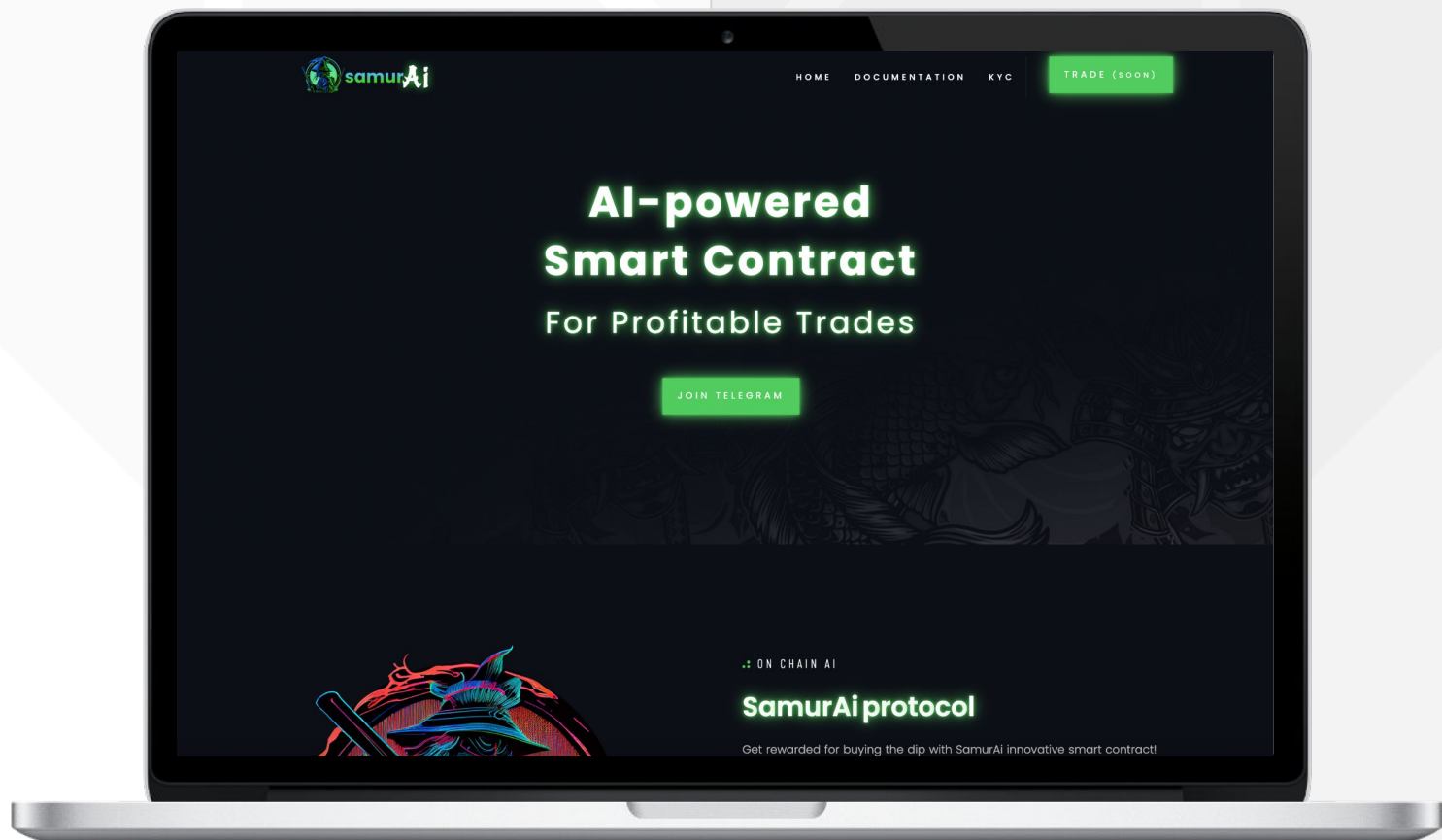
Information can be found in
the project's documentation
page. Docs should be
updated according to the
new Samurai contract
mechanics.

Roadmap

Yes, goals set without time
frames.

Mobile-friendly?

Yes



samurai.tax



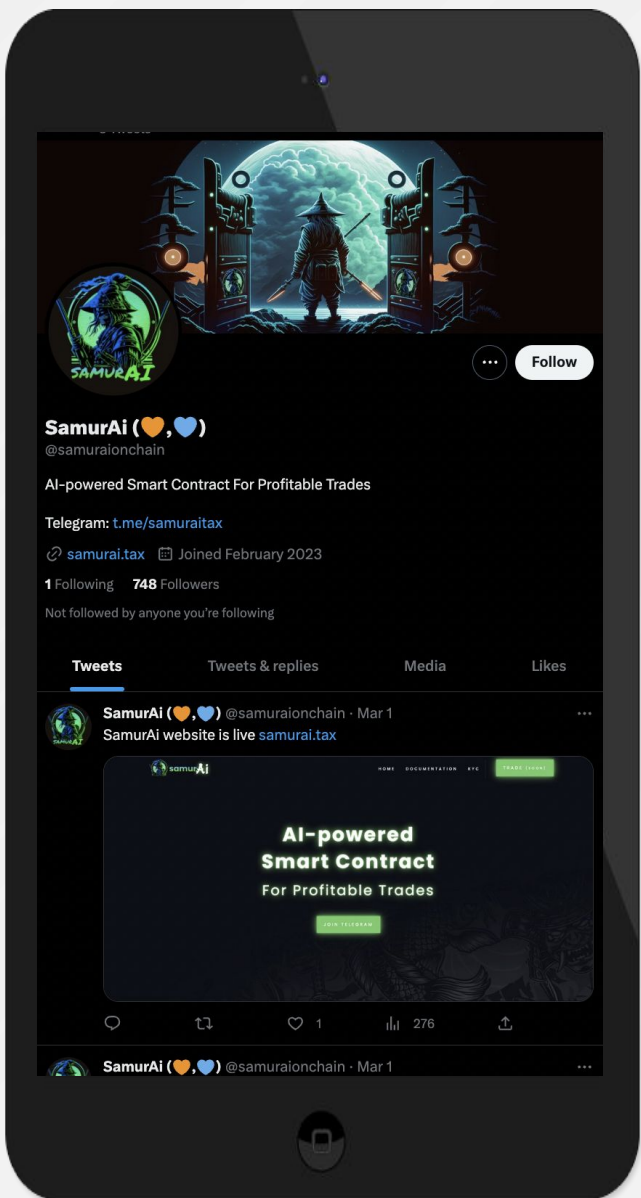
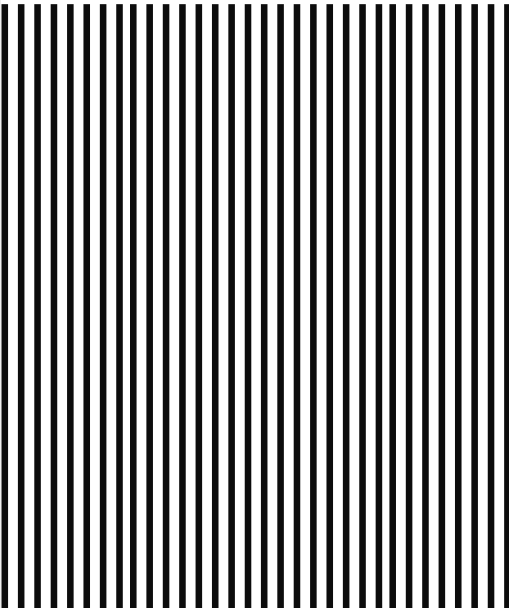
SOCIAL MEDIA

& ONLINE PRESENCE



ANALYSIS

Project’s social media pages are active with daily posts from devs and mods.



Twitter

@samuraionchain

- 7 477 followers
- Posts daily
- Active



Discord

- Not available



Telegram

@samuraionchain

- 1205 members
- Active members
- Active mods



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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- ✓ MORE THAN 500 SCAMS EXPOSED
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To hire us, reach out to
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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.